

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options,
resulting in a closer connection to BABS
NEWS 4 AUG 02 IFIPAT/IFIUDEB/IFICDB reloaded with new search and display
fields
NEWS 5 AUG 02 Caplus and CA patent records enhanced with European and Japan
Patent Office Classifications
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!
(Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
status data from INPADOC
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 27 STANDARDS will no longer be available on STN
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 06:05:58 ON 21 OCT 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 06:06:15 ON 21 OCT 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	0.63

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:06:23 ON 21 OCT 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:10:04 ON 21 OCT 2004
FILE 'REGISTRY' ENTERED AT 06:10:04 ON 21 OCT 2004
COPYRIGHT (C) 2004 American Chemical Society (ACS)

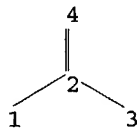
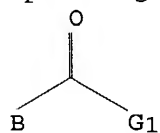
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	0.63

FULL ESTIMATED COST

=>

Uploading C:\Examination Auxillary files\10089036\10089036 clm 1.str



chain nodes :

1 2 3 4

chain bonds :

1-2 2-3 2-4

exact/norm bonds :

2-3 2-4

exact bonds :

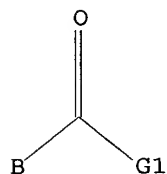
1-2

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,A

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:11:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2911 TO ITERATE

34.4% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

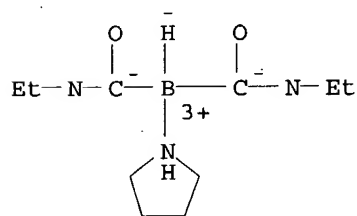
13 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 54985 TO 61455
PROJECTED ANSWERS: 387 TO 1125

L2 13 SEA SSS SAM L1

=> d scan

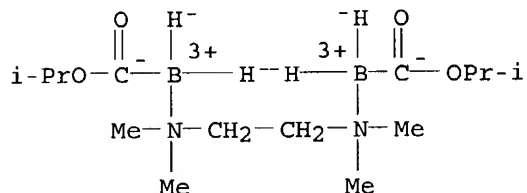
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)
MF C10 H22 B N3 O2
CI CCS



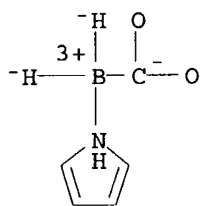
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, tetrahydrobis[(1-methylethoxy)carbonyl][μ-[N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N']]di- (9CI)
 MF C14 H34 B2 N2 O4
 CI CCS



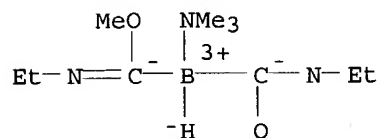
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (carboxylato)dihydro(1H-pyrrole)-, (T-4)- (9CI)
 MF C5 H7 B N O2
 CI CCS, COM



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

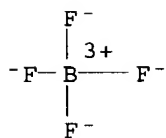
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, (N,N-dimethylmethanamine)[(ethylamino)carbonyl][(ethylimino)methoxymethyl]hydro-, (T-4)-, bis[tetrafluoroborate(1-)] (9CI)
 MF C10 H24 B N3 O2 . 2 B F4 . 2 H

CM 1

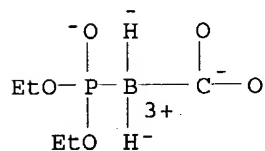


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

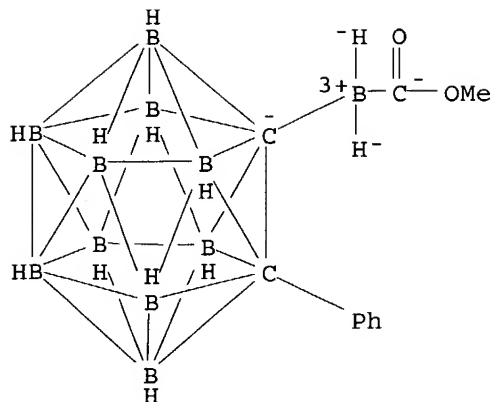


L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)(diethyl phosphito-P)dihydro-, sodium hydrogen,
 (T-4) - (9CI)
 MF C5 H12 B O5 P . H . Na
 CI CCS



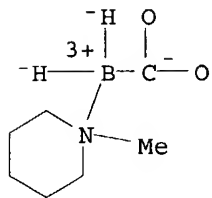
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), dihydro(methoxycarbonyl)(2-phenyl-1,2-dicarbadodecaboran(12)-1-yl)-, lithium, (T-4) - (9CI)
 MF C10 H20 B11 O2 . Li
 CI CCS



● Li⁺

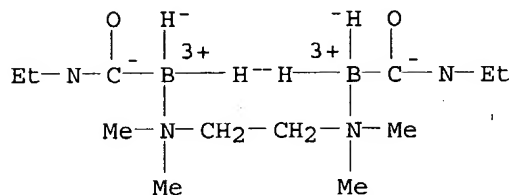
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (carboxylato)dihydro(1-methylpiperidine)-, hydrogen, (T-4)-
 (9CI)
 MF C7 H15 B N O2 . H
 CI CCS



● H⁺

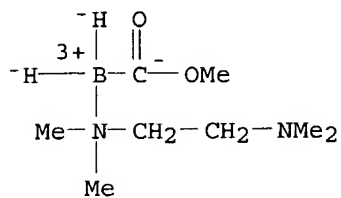
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, bis[(ethylamino)carbonyl]tetrahydro[μ-(N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N')]]di- (9CI)
 MF C12 H32 B2 N4 O2
 CI CCS

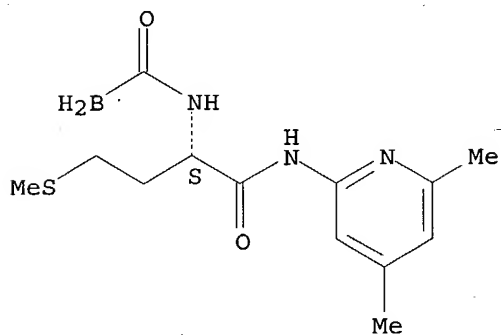


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

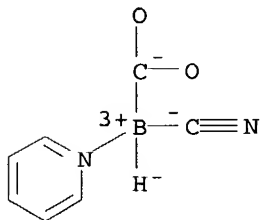
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, dihydro(methoxycarbonyl) (N,N,N',N'-tetramethyl-1,2-ethanediamine-
 κN)-, (T-4)- (9CI)
 MF C8 H21 B N2 O2
 CI CCS



L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boranecarboxamide, N-[1-[[[(4,6-dimethyl-2-pyridinyl)amino]carbonyl]-3-(
 methylthio)propyl]-, (S)- (9CI)
 MF C13 H20 B N3 O2 S
 CI COM



L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (carboxylato) (cyano-κC)hydro(methylpyridine)- (9CI)
 MF C8 H8 B N2 O2
 CI CCS, IDS, COM

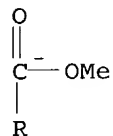
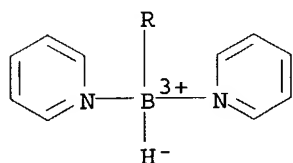


D1-Me

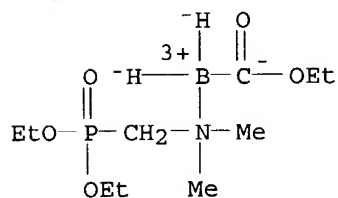
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron(1+), hydro(methoxycarbonyl)bis(pyridine)-, bromide, (T-4) - (9CI)
MF C12 H14 B N2 O2 . Br
CI CCS



L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, [diethyl [(dimethylamino)methyl]phosphonate-N](ethoxycarbonyl)dihydro-, (T-4) - (9CI)
MF C10 H25 B N O5 P
CI CCS



ALL ANSWERS HAVE BEEN SCANNED

=> e Boron, bis((ethylamino)carbonyl)hydro(pyrrolidine)-, (T-4) -/c
EXPAND INCOMPLETE (SYSTEM ERROR)
COMMAND INTERRUPTED

The file that the system uses for index display in the EXPAND command is not available now. If this message appears repeatedly, please notify the Help Desk. Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> e Boron, bis((ethylamino)carbonyl)hydro(pyrrolidine)-, (T-4) -/cn

E1 1 BORON, BIS((ETHYLAMINO) CARBONYL) HYDRO (PYRIDINE) -, (T-4) -, BI
S (TETRAFLUOROBORATE (1-)) /CN
E2 1 BORON, BIS((ETHYLAMINO) CARBONYL) HYDRO (PYRIDINE) -, (T-4) -, MO
NO (HEXAFLUOROPHOSPHATE (1-)) /CN
E3 1 --> BORON, BIS((ETHYLAMINO) CARBONYL) HYDRO (PYRROLIDINE) -, (T-4) -/
CN
E4 1 BORON, BIS((ETHYLAMINO) CARBONYL) TETRAHYDRO (M- (N,N,N',N'-T
ETRAMETHYL-1,2-ETHANEDIAMINE-N:N')) DI-/CN
E5 1 BORON, BIS((ETHYLAMINO) CARBONYL) TETRAHYDRO (M- (TETRAETHYL
DIPHOSPHITE-KP:KP')) DI-/CN
E6 1 BORON, BIS((ETHYLAMINO) IMINOMETHYL) TETRAHYDRO (M- (N,N,N',N
'-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N')) DI-/CN
E7 1 BORON, BIS((ETHYLAMINO) THIOXOMETHYL) TETRAHYDRO (M- (N,N,N',
N'-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N')) DI-/CN
E8 1 BORON, BIS((ETHYLIMINO) METHOXYMETHYL) HYDRO (4-METHYLPYRIDINE)
-, (T-4) -/CN
E9 1 BORON, BIS((ETHYLIMINO) METHOXYMETHYL) HYDRO (4-METHYLPYRIDINE)
-, (T-4) -, BIS (TETRAFLUOROBORATE (1-)) /CN
E10 1 BORON, BIS((ETHYLIMINO) METHOXYMETHYL) HYDRO (PYRIDINE) -, (T-4)
-/CN
E11 1 BORON, BIS((ETHYLIMINO) METHOXYMETHYL) HYDRO (PYRIDINE) -, (T-4)
-, BIS (TETRAFLUOROBORATE (1-)) /CN
E12 1 BORON, BIS (A,A-DIPHENYL-2-PYRROLIDINEMETHANOLATO
-N1,OA) DIMETHYL-M-OXODI-, (1S-(1A(1R*,2R*)),2.
ALPHA.)) -/CN

=> e3

L3 1 "BORON, BIS((ETHYLAMINO) CARBONYL) HYDRO (PYRROLIDINE) -, (T-4) -"/CN

=> dl3

L4 1 DL3

=> d l3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 340154-04-3 REGISTRY

CN **Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)**
(CA INDEX NAME)

MF C10 H22 B N3 O2

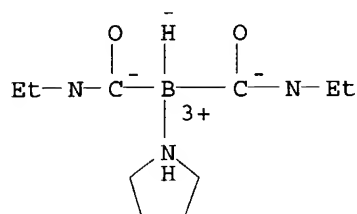
CI CCS

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.41

14.62

FILE 'CAPLUS' ENTERED AT 06:15:35 ON 21 OCT 2004
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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 13
L5 1 L3
=> d 15 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses of the First Amine-dicarboxyboranes and Their Bis(methylester) and Bis(N-ethylamide) Derivatives
AN 2001:174667 CAPLUS
DN 134:366926
TI Syntheses of the First Amine-dicarboxyboranes and Their Bis(methylester) and Bis(N-ethylamide) Derivatives
AU Gyoeri, Bela; Berente, Zoltan
CS Department of Inorganic and Analytical Chemistry, University of Debrecen, Debrecen, H-4010, Hung.
SO Inorganic Chemistry (2001), 40(8), 1770-1778
CODEN: INOCAJ; ISSN: 0020-1669
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:366926
AB Amine-bis(N-ethylcarbamoyl)boranes [A·BH(CONHET)₂, 3; A = trimethylamine (Me₃N, a), quinuclidine (Q, b), pyridine (py, f), 4-picoline (pic, g)] were prepared after deprotonation of [amine-bis(C-hydroxy-N-ethylimidate)hydroboron(2+)] cations (2), which were formed by the hydrolysis of [amine-bis(ethylnitrilium)hydroboron(2+)] tetrafluoroborates (1). Numerous representatives of 3 [A = diethylamine (Et₂NH, c), piperidine (pip, d), pyrrolidine (pyrr, e), 4-aminopyridine (4-NH₂-py, h), 4-(dimethylamino)pyridine (DMAP, i), imidazole (Him, j), 1-methylimidazole (Mim, k)] were prepared by base exchange reactions from 3a. 3A-e are extremely stable in aqueous media, either acidic or alkaline, probably because of the considerable steric hindrance of possible reaction centers. However, they were transformed into amine-dicarboxyboranes [A·BH(COOH)₂, 4a-e] in acidic medium under vigorous conditions (100-130°). This transformation was accompanied by significant decomposition, probably owing to the protonation on the N atom, resulting in the rupture of the B-N bond. As an exception, 4b, where N atom in a rigid bicycle is not prone to attacks, could be isolated in very good yield. However, amine-bis(N-ethylcarbamoyl)boranes containing amines with sp²-hybridized N atoms (3f-k) undergo complete decomposition under similar conditions probably because of the increased hydridic character of the H

adjacent to B. Base exchange reactions starting from 4b resulted in the ammonium salts of 4c-e, h, i [A·BH(COOH)(COO-)][AH+], which in turn could be transformed into the diacids 4, except 4h, by protonation. As salt formation indicates, the 4 compds. are stronger acids as univalent acids than the corresponding A·BH₂(COOH) complexes. 4A-e, i were readily esterified into amine-bis(methoxycarbonyl)boranes (5a-e, i) in MeOH, employing a catalytic amount of HBr. 5A-e, i are stable in alkaline medium but are readily hydrolyzed in acidic medium. Hydrolysis of [amine-bis(C-methoxy-N-ethylimidate)hydroboron(2+)] cations did not give the corresponding bisesters 5 in alkaline, neutral, or acidic medium.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.83

22.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.70

-0.70

FILE 'REGISTRY' ENTERED AT 06:22:43 ON 21 OCT 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

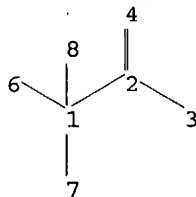
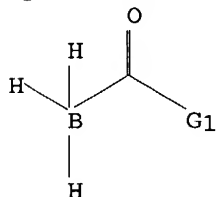
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Examination Auxillary files\10089036\10089036 carboxyborane.str



chain nodes :

1 2 3 4 6 7 8

chain bonds :

1-2 1-6 1-7 1-8 2-3 2-4

exact/norm bonds :

2-3 2-4

exact bonds :

1-2 1-6 1-7 1-8

G1:H,A

Match level :

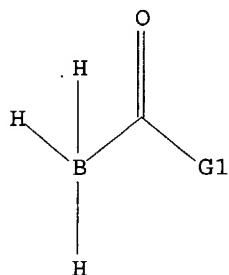
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS

L6 STRUCTURE UPLOADED

=> d l6

L6 HAS NO ANSWERS

L6 STR



G1 H,A

Structure attributes must be viewed using STN Express query preparation.

=> search l6 sss sam

SAMPLE SEARCH INITIATED 06:23:26 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2911 TO ITERATE

34.4% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 54985 TO 61455

PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

=> search l6 sss full

FULL SEARCH INITIATED 06:23:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 57303 TO ITERATE

100.0% PROCESSED 57303 ITERATIONS

50 ANSWERS

SEARCH TIME: 00.00.01

L8 50 SEA SSS FUL L6

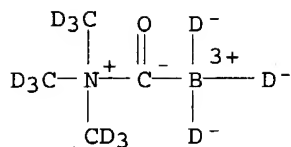
=> d scan

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Boron, [N,N-di(methyl-d3)methan-d3-aminium η-oxomethylidetrihydro-d3-(9CI)

MF C4 B D12 N O

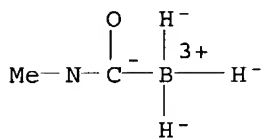
CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

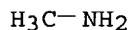
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), trihydro[(methylamino)carbonyl]-, (T-4)-, hydrogen, compd.
 with methanamine (1:1) (9CI)
 MF C2 H7 B N O . C H5 N . H

CM 1

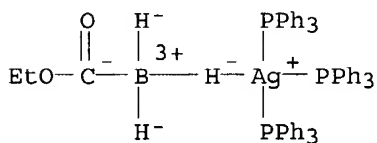


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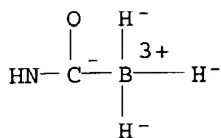
CM 2



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Silver, [(ethoxycarbonyl)trihydroborato(1-)-H]tris(triphenylphosphine)-,
 (T-4)- (9CI)
 MF C57 H53 Ag B O2 P3
 CI CCS



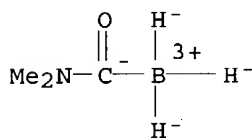
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), carbamoyltrihydro-, sodium (8CI)
 MF C H5 B N O . Na
 CI CCS



● Na⁺

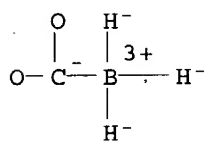
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, hydrogen, (T-4)- (9CI)
 MF C3 H9 B N O . H
 CI CCS, COM



● H⁺

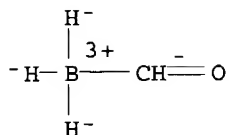
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, dihydrogen, (T-4)- (9CI)
 MF C H3 B O2 . 2 H
 CI CCS



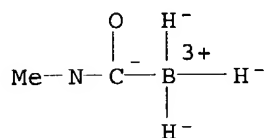
● 2 H⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), formyltrihydro-, (T-4)- (9CI)
 MF C H4 B O
 CI CCS



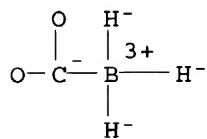
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), trihydro(methylcarbamoyl)-, potassium (8CI)
 MF C2 H7 B N O . K
 CI CCS



● K⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

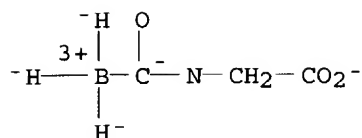
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)- (9CI)
 MF C H3 B O2 . H
 CI CCS



● H⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

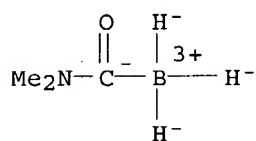
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), [[[carboxylatomethyl)amino]carbonyl]trihydro-, dipotassium,
 (T-4)- (9CI)
 MF C3 H6 B N O3 . 2 K
 CI CCS



● 2 K⁺

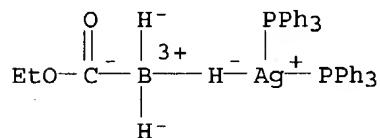
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, (T-4)- (9CI)
 MF C3 H9 B N O
 CI CCS, COM

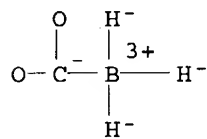


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Silver, [(ethoxycarbonyl)trihydroborato(1-)-H]bis(triphenylphosphine)- (9CI)
 MF C39 H38 Ag B O2 P2
 CI CCS



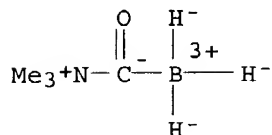
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, calcium (8CI)
 MF C H3 B O2 . Ca
 CI CCS



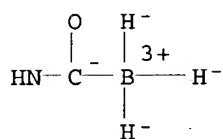
● Ca²⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, (N,N-dimethylmethanaminium η -oxomethylidetrihydro- (9CI)
 MF C4 H12 B N O
 CI CCS

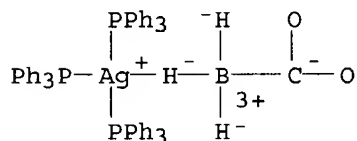


L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (aminocarbonyl)trihydro-, (T-4)- (9CI)
 MF C H5 B N O
 CI CCS, COM



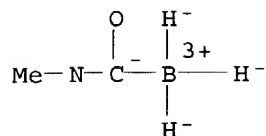
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Argentate(1-), [(carboxylato)trihydroborato(2-)-H]tris(triphenylphosphine)-, hydrogen, (T-4)- (9CI)
 MF C55 H48 Ag B O2 P3 . H
 CI CCS



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), trihydro[(methylamino)carbonyl]-, sodium, (T-4)- (9CI)
 MF C2 H7 B N O . Na
 CI CCS

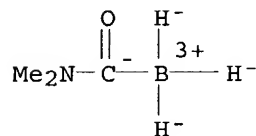


● Na⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

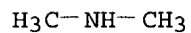
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, (T-4)-, hydrogen, compd.
 with N-methylmethanamine (1:1) (9CI)
 MF C3 H9 B N O . C2 H7 N . H

CM 1

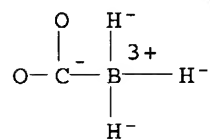


● H⁺

CM 2



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, lead(2+) (8CI)
 MF C H3 B O2 . Pb
 CI CCS

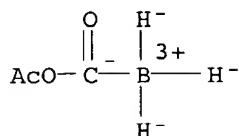


● Pb(II) 2+

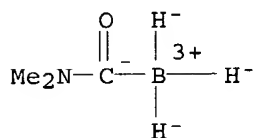
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(acetyloxy)carbonyl]trihydro-, (T-4)- (9CI)

MF C3 H6 B O3
CI CCS



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (dimethylcarbamoyl)trihydro-, potassium (8CI)
MF C3 H9 B N O . K
CI CCS



● K⁺

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

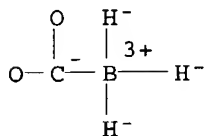
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=> e Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)-/cn
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E2      1      BORATE(2-), (CARBOXYLATO)TRIHIDRO-, LEAD(2+)/CN
E3      1 --> BORATE(2-), (CARBOXYLATO)TRIHIDRO-, MONOHIDROGEN, (T-4)-/CN
E4      1      BORATE(2-), (CARBOXYLATO)TRIHIDRO-, POTASSIUM HYDROGEN, (T-4)
           )-/CN
E5      1      BORATE(2-), (CARBOXYLATO)TRIHIDRO-, SILVER COMPLEX/CN
E6      1      BORATE(2-), (CARBOXYLATO)TRIHIDRO-, SODIUM HYDROGEN, (T-4)-/
           CN
E7      1      BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, (T-4)-/CN
E8      1      BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, (T-4)-, DIH
           YDROGEN, COMPD. WITH N,N-DIPROPYL-1-PROPANAMINE (1:1)/CN
E9      1      BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, DIHYDROGEN,
           (T-4)-/CN
E10     1      BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, DIPOTASSIUM
           , (T-4)-/CN
E11     1      BORATE(2-), (CARBOXYLATOMETHYL)TRIPHENYL-, (T-4)-/CN
E12     1      BORATE(2-), (CARBOXYLATOMETHYL)TRIPHENYL-, (T-4)-, (OC-6-11)
           -HEXAAMMINECOBALT(3+) HYDROGEN (3:1:3)/CN
```

```
=> e3
L9      1 "BORATE(2-), (CARBOXYLATO)TRIHIDRO-, MONOHIDROGEN, (T-4)-"/CN
```

=> d 19

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 333738-22-0 REGISTRY
CN Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)- (9CI)
(CA INDEX NAME)
MF C H3 B O2 . H
CI CCS
SR CA

LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
 RACT (Reactant or reagent)
 CRN (66005-32-1)



● H⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
163.30	185.75

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.70

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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17

FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l9

L10 1 L9

=> d l10 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

TI Carbon monoxide source for preparation of transition metal carbonyl complexes

AN 2001:265426 CAPLUS
 DN 134:289554
 TI Carbon monoxide source for preparation of transition metal carbonyl complexes
 IN Alberto, Roger Ariel
 PA Mallinckrodt Inc., USA
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025243	A1	20010412	WO 2000-EP9856	20001005
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	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				EP 1999-203254	A 19991005
	EP 1218385	A1	20020703	EP 2000-972700	20001005
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
				EP 1999-203254	A 19991005
				WO 2000-EP9856	W 20001005
	JP 2003511334	T2	20030325	JP 2001-528187	20001005
				EP 1999-203254	A 19991005
				WO 2000-EP9856	W 20001005

OS CASREACT 134:289554; MARPAT 134:289554

AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal carbonyl complexes. The compds. are (X1)(X2)(X3)BC(O)Y where X1, X2 and X3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H3BCO as a reducing agent. Thus, K2H3BCO2 was prepared by bubbling H3BCO through and ethanolic KOH solution K2H3BCO2 can be reacted with [99mTcO4]- to generate [99mTc(OH2)(CO)3]+.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.87	189.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-1.40

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STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
 DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

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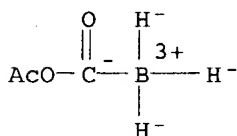
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> e Borate(1-), ((acetyloxy)carbonyl)trihydro-, (T-4)-/cn
E1      1      BORATE(1-), ((6-METHYL-1,3-CYCLOHEXANEDIYL) (1-METHYL-1,2-ETH
        ANEDIYL))DIHYDRO-, LITHIUM, (T-4)-/CN
E2      1      BORATE(1-), ((6-METHYL-1,3-CYCLOHEXANEDIYL) (1-METHYL-1,2-ETH
        ANEDIYL))HYDRO(1,1,2-TRIMETHYLPROPYL)-, LITHIUM, (T-4)-/CN
E3      1 --> BORATE(1-), ((ACETYLOXY)CARBONYL)TRIHYDRO-, (T-4)-/CN
E4      1      BORATE(1-), ((BORYLENEAMINO)METHYLENE) (CYANO-N)HYDRO-, HYDRO
        GEN, (E,?)-/CN
E5      1      BORATE(1-), ((BORYLENEAMINO)METHYLENE) (CYANO-N)HYDRO-, HYDRO
        GEN, (Z,?)-/CN
E6      1      BORATE(1-), ((CYANO-13C)-C)TRIPHENYL-, NICKEL COMPLEX/CN
E7      1      BORATE(1-), ((D-ERYTHRO-HEX-2-ENONIC ACID-KO5,KO
        6) Γ-LACTONATO(2-))DIHYDROXY-, (T-4)-/CN
E8      1      BORATE(1-), ((DICYCLOHEXYLPHOSPHINO-KP)ACETATO) TRIHYDR
        O-, HYDROGEN, (T-4)-/CN
E9      1      BORATE(1-), ((DIETHOXYPHOSPHINYL)DIFLUOROMETHYL)TRIMETHOXY-,
        (T-4)-/CN
E10     1      BORATE(1-), ((DIETHOXYPHOSPHINYL)DIFLUOROMETHYL)TRIMETHOXY-,
        LITHIUM, (T-4)-/CN
E11     4      BORATE(1-), ((DIETHYL 3,3'-(1,2-ETHANEDIYLDINITRILO) BIS(2-(H
        YDROXYIMINO)BUTANOATO)) (2-)-O2,O2')DIFLUORO-, NICKEL COMPLEX
        /CN
E12     4      BORATE(1-), ((DIETHYL 3,3'-(1,3-PROPANEDIYLDINITRILO) BIS(2-(H
        YDROXYIMINO)BUTANOATO)) (2-)-O2,O2')DIFLUORO-, NICKEL COMPLE
        X/CN
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```
=> e3
L11     1 "BORATE(1-), ((ACETYLOXY)CARBONYL)TRIHYDRO-, (T-4)-"/CN
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=> d l11
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L11. ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   89869-70-5  REGISTRY
CN   Borate(1-), [(acetyloxy)carbonyl]trihydro-, (T-4)- (9CI) (CA
      INDEX NAME)
OTHER CA INDEX NAMES:
CN   Acetic acid, anhydride with formic acid, boron complex
MF   C3 H6 B O3
CI   CCS
LC   STN Files:  CA, CAPLUS
DT.CA CAplus document type:  Journal
RL.NP Roles from non-patents:  PREP (Preparation); PRP (Properties)
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.62	196.24
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
 FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l11
 L12 1 L11
 => d l12 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Predictive schemes for the reactivity of borane carbonyl and the stability of carbonyltrihydroborate anions, BH₃C(O)X-
 AN 1984:174885 CAPLUS
 DN 100:174885
 TI Predictive schemes for the reactivity of borane carbonyl and the stability of carbonyltrihydroborate anions, BH₃C(O)X-
 AU Spielvogel, Bernard F.; McPhail, Andrew T.; Knight, Jimmy A.; Moreland, Charles G.; Gatchell, Catherine L.; Morse, Karen W.
 CS Paul M. Gross Chem. Lab., Duke Univ., Durham, NC, 27706, USA
 SO Polyhedron (1983), 2(12), 1345-52
 CODEN: PLYHDE; ISSN: 0277-5387
 DT Journal
 LA English
 OS CASREACT 100:174885
 AB The reactivity of borane carbonyl (BH₃CO) and its isoelectronic counterpart the acetylum cation (CH₃CO⁺) are compared resulting in the formulation of (carbonyl)trihydroborate anions, BH₃C(O)X-, which are isoelectronic and isostructural with organic carbonyls. By analogy with the ease of reduction of organic carbonyl compds. by hydroborate, the relative stability towards self-reduction-oxidation (hydride transfer from B to carbonyl C) in BH₃C(O)X- is proposed. The postulated order, with increasing stability is: BH₃C(O)Cl- < BH₃C(O)H- < BH₃C(O)R- < BH₃C(O)OR- < BH₃C(O)NR₂- < BH₃C(O)2-. Exptl. results of this study together with known chemical are consistent with the proposed order. Further, it is suggested that a similar predictive scheme may be applicable to the chemical of the

aminecarboxyboranes (B analogs of α -amino acids) and their derivs.

=> l8

L13 34 L8

=> save temp l13 boroncmpds/a

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=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.27	204.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-2.10

SESSION WILL BE HELD FOR 60 MINUTES

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PASSWORD:

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FILE 'CAPLUS' ENTERED AT 06:37:47 ON 21 OCT 2004
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.27	204.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-2.10

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.27	204.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-2.10

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

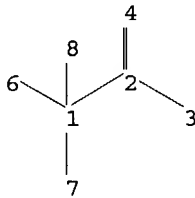
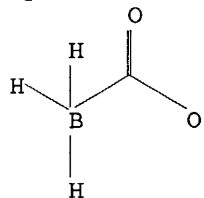
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Examination Auxillary files\10089036\10089036 carboxyborane specific.str



chain nodes :
1 2 3 4 6 7 8
chain bonds :
1-2 1-6 1-7 1-8 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2 1-6 1-7 1-8

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS

L14 STRUCTURE UPLOADED

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 526832-07-5 REGISTRY
CN DNA (Diplosoma listerianum clone DL3.9 microsatellite 3/9B-containing fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN GenBank AF508214
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

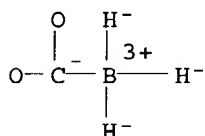
=> search l14 exact full
FULL SEARCH INITIATED 06:39:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L15 1 SEA EXA FUL L14

=> d scan

L15 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, (T-4)- (9CI)
MF C H3 B O2
CI CCS, COM



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	54.86	259.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.10

FILE 'CAPLUS' ENTERED AT 06:39:20 ON 21 OCT 2004
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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l15

L16 3 L15

=> d l16 1-3 ti fbib abs

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Carbon monoxide source for preparation of transition metal carbonyl complexes
 AN 2001:265426 CAPLUS
 DN 134:289554
 TI Carbon monoxide source for preparation of transition metal carbonyl complexes
 IN Alberto, Roger Ariel
 PA Mallinckrodt Inc., USA
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025243	A1	20010412	WO 2000-EP9856	20001005
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1218385	A1	20020703	EP 1999-203254	A 19991005
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL EP 2000-972700 20001005 EP 1999-203254 A 19991005 WO 2000-EP9856 W 20001005				
	JP 2003511334	T2	20030325	JP 2001-528187	20001005
	EP 1999-203254 A 19991005 WO 2000-EP9856 W 20001005				

OS CASREACT 134:289554; MARPAT 134:289554
 AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal carbonyl complexes. The compds. are (X1)(X2)(X3)BC(O)Y where X1, X2 and X3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H3BCO as a reducing agent. Thus, K2H3BCO2 was prepared by bubbling H3BCO through and ethanolic KOH solution K2H3BCO2 can be reacted with [99mTcO4]- to generate [99mTc(OH2)(CO)3]+.
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+
 AN 2001:172533 CAPLUS
 DN 134:375302
 TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+
 AU Alberto, Roger; Ortner, Kirstin; Wheatley, Nigel; Schibli, Roger; Schubiger, August P.
 CS Institute of Inorganic Chemistry, University of Zuerich, Zurich, CH-8057, Switz.
 SO Journal of the American Chemical Society (2001), 123(13), 3135-3136
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 134:375302

AB Using a boron-based carbonylating agent, [H3BCO2]- which acts as an in situ CO source and a reducing agent at the same time, an organometallic transition-metal complex [99mTc(OH2)3(CO)3]+ was feasibly prepared for the first time. K[H3BCO2] (2) was prepared from H3BCO and KOH in alc. Crystals of [K(cryptand)]H3BCO2H were obtained after dissoln. of 2 in a THF solution of 4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8.]hexacosane. Aqueous solns. of 2 are strongly alkaline and quite stable toward heating, but the addition of a borate buffer allows the decomposition with half-lives in the order of tens of minutes. Kinetic measurements in buffered solns. show a second-order dependence of the rate of boranocarboxylate decomposition on proton decomposition. Borane carbonyl is formed when boranocarbonate salts are treated with strong acids.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI An investigation of the coordinating properties of the boranocarboxylates and tetrahydroborate
AN 1978:130114 CAPLUS
DN 88:130114
TI An investigation of the coordinating properties of the boranocarboxylates and tetrahydroborate
AU Bommer, Jerry Charles
CS Utah State Univ., Logan, UT, USA
SO (1977) 250 pp. Avail.: Univ. Microfilms Int., Order No. 7730634
From: Diss. Abstr. Int. B 1978, 38(8), 3687
DT Dissertation
LA English
AB Unavailable

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.48	266.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.40	-3.50

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:41:09 ON 21 OCT 2004